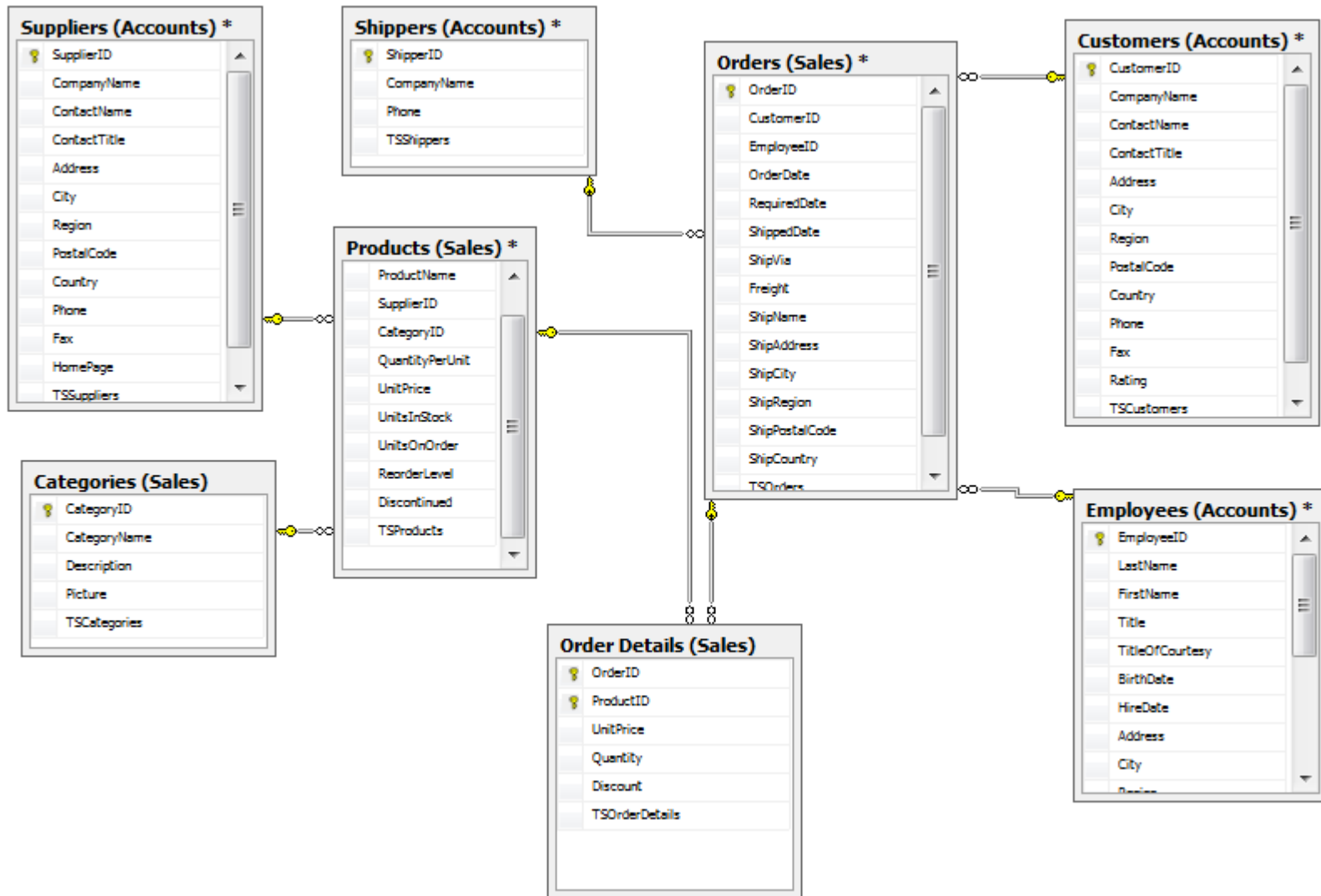




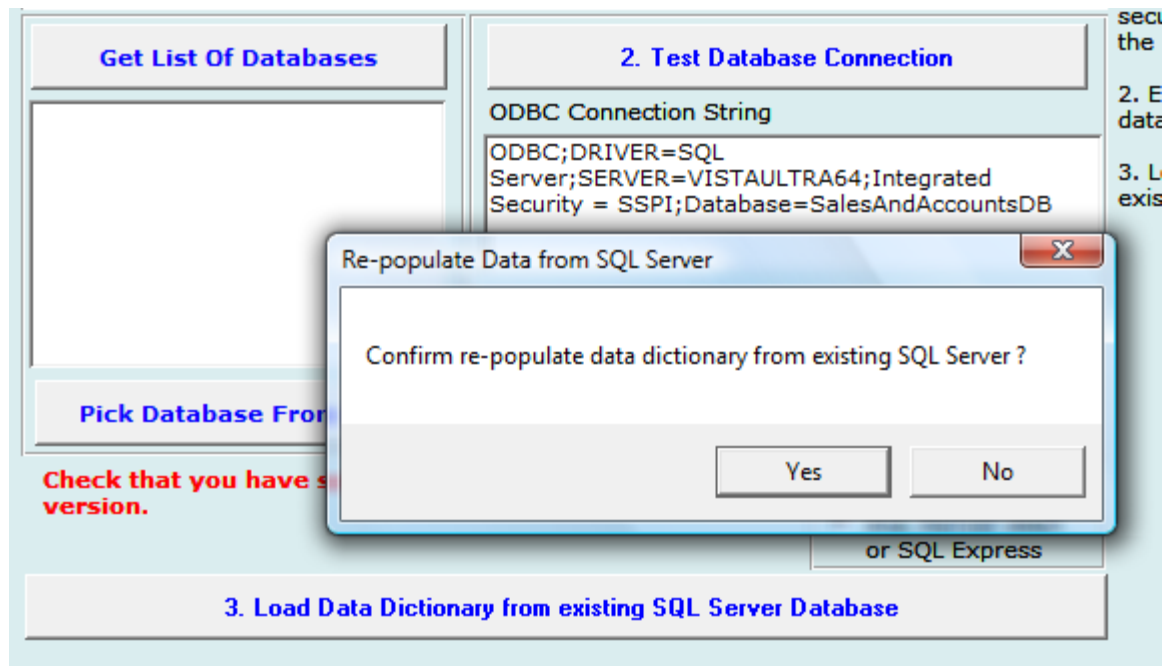
Reverse Engineering

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In this sequence of screens we see how to take away a snapshot of SQL Server structure and if required SQL Server data.














We start this process by loading the data dictionary (tables, relationships and indexes from the SQL Server database.



We can browse the data dictionary so see the tables, field, relationships and indexes extracted from the SQL Server. Below we show the list of relationships.

Migrate Structure And Data | Full Database Auditing | Browse Data Dictionary | Migrate Queries | Web Conversion | Commissioning Data | Reverse Er

 browse tables |
  browse fields |
  browse indexing |
  browse relationships |
  reporting |
  Access forms |
  Access reports |
  query use in code |
  display status |
  help |
  exit system

data dictionary | Application Objects | status

relationships can be renamed and excluded

System Name	Constraint Name	From Table Name	From Fields	To Table Name	To Fields	Exclude Relationship
SalesAndAccountsDB	relProductsCatego	Products	CategoryID	Categories	CategoryID	<input type="checkbox"/>
SalesAndAccountsDB	relOrderDetailsPro	Order Details	ProductID	Products	ProductID	<input type="checkbox"/>
SalesAndAccountsDB	relOrderDetailsOrd	Order Details	OrderID	Orders	OrderID	<input type="checkbox"/>
SalesAndAccountsDB	FK_Products_Supp	Products	SupplierID	Suppliers	SupplierID	<input type="checkbox"/>
SalesAndAccountsDB	FK_Orders_Shippe	Orders	ShipVia	Shippers	ShipperID	<input type="checkbox"/>
SalesAndAccountsDB	FK_Orders_Employ	Orders	EmployeeID	Employees	EmployeeID	<input type="checkbox"/>
SalesAndAccountsDB	FK_Orders_Custon	Orders	CustomerID	Customers	CustomerID	<input type="checkbox"/>

Next we create an empty Access database and register this for holding the reverse engineering results.

Migrate Structure And Data | Full Database Auditing | Browse Data Dictionary | Migrate Queries | Web Conversion | Commissioning D

existing SQL Server | empty Access database | reverse engineer SQL Server to Access | error resolution | changes to design | reporting reverse engineering results | display status | help status | exit system

select an empty Access databases to reverse engineer into

Name (a name by which you recognise this database)	Target Database Location (EMPTY DATABASE) (enter the full path, database name and file extension) eg. c:\test\test.mdb	DB Type	Assign To Schema (see notes below) 2005 Only	Do not upsiz
SalesAndAccountsE	ODBC;DRIVER=SQL Server;SERVER=VISTAULTRA64;Integrated	Existing SQL Server		<input checked="" type="checkbox"/>
SalesAndAccounts	C:\Reverse\SalesAndAccounts.mdb	Application & Data		<input type="checkbox"/>

We can make a number of selections for reverse engineering
And then reverse engineer the database.

Migrate Structure And Data | Full Database Auditing | Browse Data Dictionary | Migrate Queries | Web Conversion | Commissioning D

existing SQL Server | empty Access database | **reverse engineer SQL Server to Access** | error resolution | changes to design | reporting results | display status | help status | exit system

reverse engineer SQL Server to Access

Select a new empty Access Database, Target Database

SalesAndAccounts

C:\UsingSchemas\NW_Orders.mdb

Ensure that the target database is empty when repeating this operation

Ready To Reverse Engineer

SQL Server Connection Ready

Select the SQL Server Database to reverse engineer

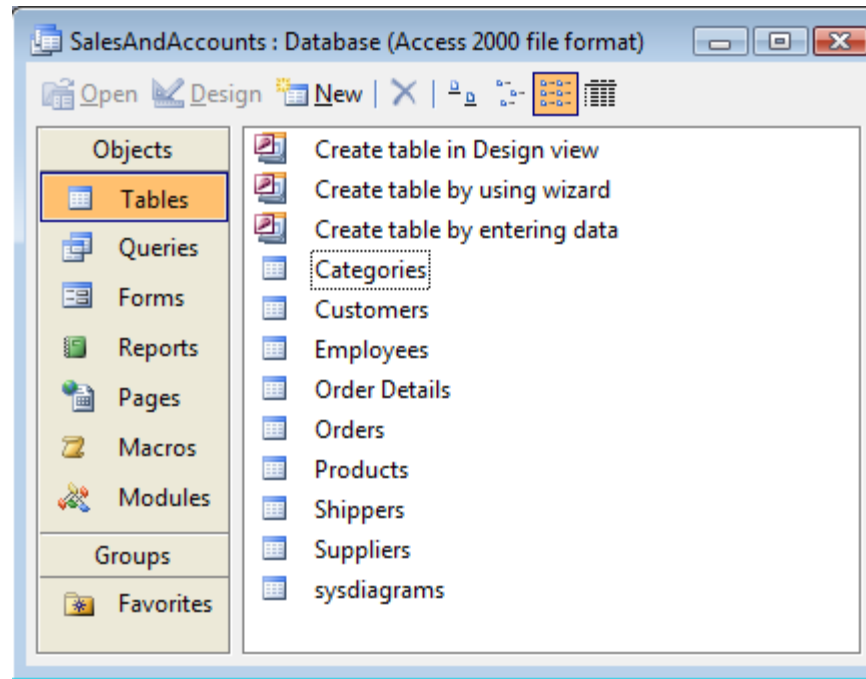
SalesAndAccountsDB

Reverse Engineer Relationships	<input checked="" type="checkbox"/>	Reverse Engineer Checks	<input checked="" type="checkbox"/>	Normally auditing fields created by MUST are excluded (to allow for future forward engineering).
Reverse Engineer Field Default Values	<input checked="" type="checkbox"/>	Remove Any Auditing Fields	<input checked="" type="checkbox"/>	
Reverse Engineer Indexing	<input checked="" type="checkbox"/>	Load Data From SQL Server	<input type="checkbox"/>	Take care if loading data, as SQL Server will often contain vast amounts of data.

Reverse Engineer SQL Server to Access (SQL 2005 Only)

Reverse Engineer Database

We can now open the Access database to examine the results.



Customers : Table						
	CustomerID	CompanyName	ContactName	ContactTitle	Address	City
▶ +	ALFKI	Alfreds Futterki	Maria Anders	Sales Represer	Obere Str. 57	Berlin
+ ANATR	Ana Trujillo Em	Ana Trujillo	Owner		Avda. de la Cor	México D.F.
+ ANTON	Antonio Morenc	Antonio Morenc	Owner		Mataderos 231	México D.F.
+ AROUT	Around the Hon	Thomas Hardy	Sales Represer		120 Hanover Sc	London
+ BERGS	Berglunds snab	Christina Berglu	Order Administ		Berguvsvägen 1	Luleå
+ BLAUS	Blauer See Deli	Hanna Moos	Sales Represer		Forsterstr. 57	Mannheim

Relationships.

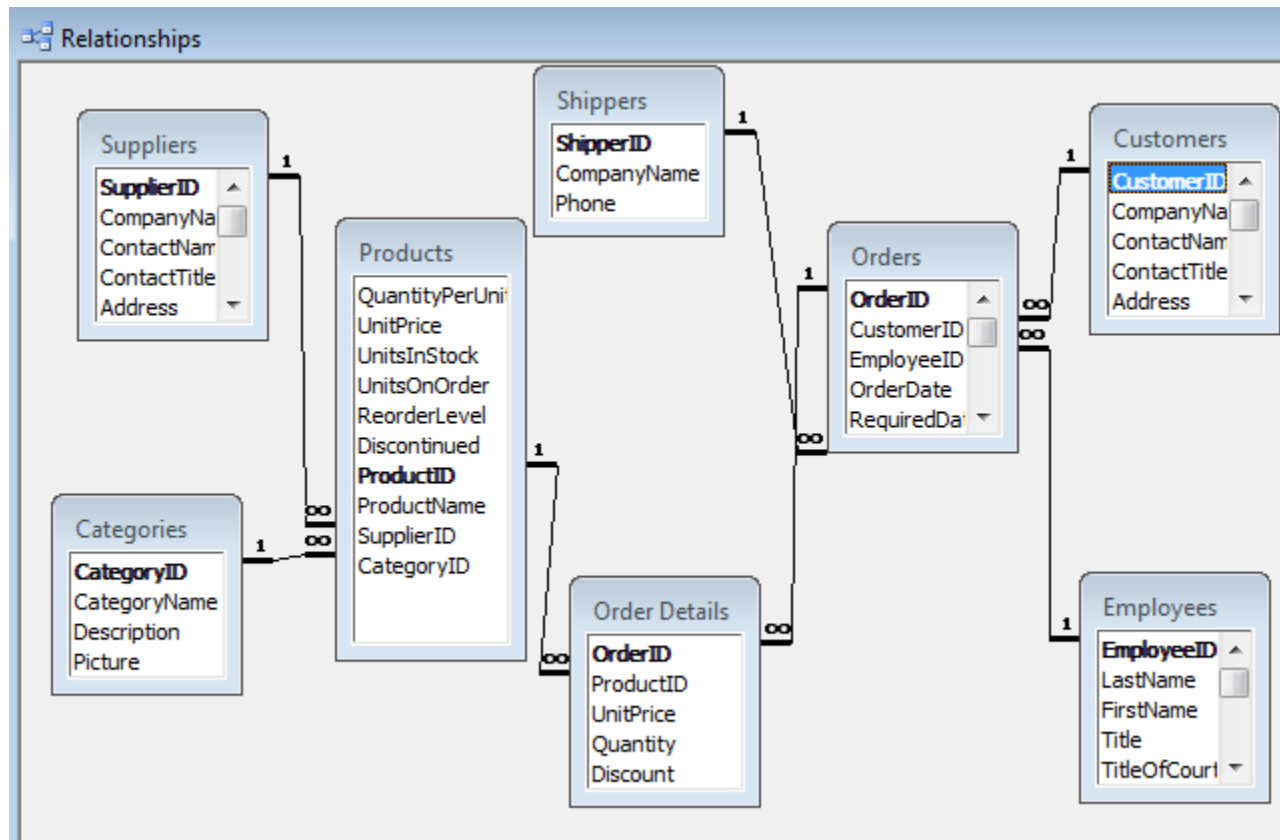


Table structures and indexes.

The screenshot displays the Microsoft Access interface. On the left, the 'Employees : Table' is shown with a list of fields and their data types. On the right, the 'Indexes: Employees' dialog box is open, showing a list of indexes and their properties.

Field Name	Data Type
EmployeeID	AutoNumber
LastName	Text
FirstName	Text
Title	Text
TitleOfCourtesy	Text
BirthDate	Date/Time
HireDate	Date/Time
Address	Text
City	Text
Region	Text
PostalCode	Text
Country	Text
HomePhone	Text
Extension	Text
Photo	Text
Notes	Memo
ReportsTo	Number

Index Name	Field Name	Sort Order
idxEmployeesLastName	LastName	Ascending
idxEmployeesPostalCode	PostalCode	Ascending
pk_Employees	EmployeeID	Ascending

Index Properties

Primary	No
Unique	No
Ignore Nulls	No

The name for this index. Each index can use up to 10 fields.